

# ASR-P252B C# Demo App for Windows Devices

# User's Manual

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# **Revision History**

Version	Modified Contents	Date
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# Preface

This document describes the correct operation method of the "ASR-P252B Demo App" for Windows. Be sure to read this carefully before using the app.

If you have any comments or questions about this manual, please don't hesitate to get in touch with us at:

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# About the Demo App for ASR-P252B

The "ASR-P252B Demo App" (hereinafter referred to as "Demo App") is an application that customers can use together with our company's ASR-P252B device (hereinafter referred to as "AsReader").

Please download this application from the link below under the "C# Sample" heading.

https://asreader.com/products/asr-p252b/?SDK

Note: The ASR-P252B Demo App is a dedicated Demo App for ASR-P252B devices.

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# **1.1.Connecting to PC**

1. Power on the AsReader. Two beep sounds indicate that the AsReader is powered on.

2. Connect the AsReader with the USB port of a Windows PC using a USB-C data cable. A steady light of the LED indicator and a beep sound indicate that the AsReader is successfully connected to the PC.

\* For details about Bluetooth connection, please refer to the "PADDLE-Type User's Manual".



# 1.2. Starting the App

Double click "AsReaderP252B\_Demo.exe".

Resources	Double click
AsReaderP252B_Demo.exe	
AsReaderP252B_Demo.exe.config	
AsReaderP252B_Demo.pdb	
AsReaderP252B_SDK.dll	
AsReaderP252B_SDK.pdb	

The page below is displayed:

ASR-P2528 Demo connect COM Port COM11 v Baud Rate 115200 · Connect Device Name Search Connect	Disconnect					∆sRea	e : der.
Basic Option Mask Read Write Lock	Inventory	Barcode Scan					
App Version: 1.0.0		Power Gain:	<ul> <li>Operation</li> </ul>	Time(s):	Continuou	us Mode	xport
irmware Version:	Start	Session:	<ul> <li>Session FI</li> </ul>	ag:	<ul> <li>Report RS</li> </ul>	ISI LI	ED ON
lardware Version:		EPC Temper	ature 🔵 Moisture		<ul> <li>Display PC</li> </ul>	C	Clear
IHF/HF Version: Update Firmware RFID Update Firmware						Tag ( Read Time Spee	Count: 0 (Sec): 0 d(t/s): 0

\* If the app is started before the AsReader is connected, the COM Port box may be empty. It is recommended to click the COM Port drop-down list to get the COM Port.

# 1.3. Connecting

Select the correct COM port and click "Connect" to connect the AsReader.

Connect			Select			② Cli	ick
COM Port	COM11 ~	Baud Rate	115200	~	Connect	Disconnect	
Device Name			Search		Connect	Disconnect	

The page is displayed as below once connected.

ASR-P252B	B Demo														- 🗆 X
Connect COM Port Device Na	t CON	/11 ×	Baud Rat	te 1152	200 v	Connect Connect	Disconnect		2023/05/10 2023/05/10 2023/05/10 2023/05/10 2023/05/10	5 17:09 5 17:09 5 17:09 5 17:09 5 17:09	5:11 Set session flag 5:12 Received operat 5:12 Received invent 5:12 Received report 5:12 battery:3	succeed. tion time. ory mode. rssi.		۵sř	Reader
Basic	Option	Mask	Read	Write	Lock		Inventory	Barcode Sca	an						
App Versi	ion:	1.0.0						Power Ga	in: 30.0 dB	~	Operation Time(s):	0	Contine	uous Mode	Export
Firmware	Version:	1.1.20					Start	Session:	<b>SO</b>	Ŷ	Session Flag:	A or B ~	Report	RSSI	LED ON
Hardware	Version:	2.5.0						● EPC ○	Temperatu	re 🔿 N	Moisture		<ul> <li>Display</li> </ul>	PC	Clear
Region/Co	ountry:	Japan 1\	W				Index PC	EPC			Count 🗌				
S/N:		HJ00000	)												
UHF/HF V	/ersion:	1.2.9.0													Tag Count:
		Line of	-t- Floor												0
		Upd	ate Firm	ware											Read Count:
		REID U	ndate Fir	mware	1										0
			puttern	mult											Time(Sec):
															0
															Speed(t/s):
															0

### 1.4. Disconnecting

Click "Disconnect" to disconnect from the AsReader.

Connect					Click
COM Port	COM11 ~	Baud Rate	115200 ~	Connect	Disconnect
Device Name			Search	Connect	Disconnect

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# 2.1.Inventory

• Operating steps:

1. Configure the operation time and other settings.

2. Click "Start" in the app and the name of the button changes to "Stop". The AsReader starts the inventory and displays the data of the inventoried RFID tags in real time. The AsReader can also start an inventory when its trigger button is pressed.

3. Click "Stop" to stop the inventory. When an operation time is set, the inventory automatically stops after the set time.

Inventory	Barcode Scan	_
	Power Gain: 30.0 dB 🗸 Operation Time(s): 0 🗹 Continuous Mode	Export
Start	Session: S0 · Session Flag: A or B · Report RSSI	LED ON
	● EPC ◯ Temperature ◯ Moisture ☑ Display PC	Clear
" ② C	lick ① Set	Tag Count: 0 Read Count: 0 Time(Sec): 0 Speed(t/s): 0

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Invor	ton	Danca da Caan							
inver	itory	Click							
		Fower Gant:	30.0 dB 🛛 🗸	Operation T	ime(s):	)	<ul> <li>Contir</li> </ul>	nuous Mode	Export
St	ор	Session:	S0 ~	Session Flag	): .	A or B 🛛 🗸	✓ Report	t RSSI	LED ON
L		● EPC ● Te	emperature 🔵 N	Noisture			<ul> <li>Displa</li> </ul>	IY PC	Clear
Index	PC	EPC		RSSI	Phase	Frequency	Count		
16	35FD	55551170000	0020CE0CE6847	7 -48.8dB	219°	920.4MHz	127	^	
17	3400	E2801170000	0020CE0CFC4D	6 -59.1dB	276°	920.4MHz	136		
18	3400	12345678000	0020CE0CE68F2	2 -50.4dB	68°	920.4MHz	137		Tag Count:
19	3400	E2801170000	0020CE0CE8A8	3 -37.8dB	236°	920.4MHz	139		32
20	3400	E2801170000	0020CE0CE2AA	7 -40.3dB	228°	920.4MHz	139		52
21	3400	E2801170000	0020CE0CF5AB	3 -63.6dB	259°	920.4MHz	56		Read Count:
22	3400	E2801170000	0020CE0CE6836	5 -74.4dB	284°	920.8MHz	7		3291
23	3400	30347A12040	005C000087A2	3 -42.8dB	323°	920.4MHz	137		Time(Sec):
24	35FD	E2801170000	0020CE0CF38D	3 -55.8dB	194°	920.4MHz	134		15
25	3400	E2801170000	0020CE0CE8A4	4 -66.8dB	0°	920.4MHz	122		15
26	3400	E2801170000	0020CE0CE34F6	5 -68.4dB	3°	920.4MHz	81		Speed(t/s):
27	3400	E2801170000	0020CE0CE6817	7 -49.8dB	222°	920.4MHz	17		447
		20	23/05/16 17:43	35 Stop suc	reed				
							,	Notification	area
							/	_	
		20	)23/05/16 17:43 )22/05/16 17:43	:35 Stop suc	ceed.				
Discon	nect	20		249 Start Inve	entory si	icceed			
		20	)23/05/16 17:44	:49 Start Inve	entory su ceed.	icceed.			2eoder
Discon	noct		23/05/16 17:44 23/05/16 17:44 23/05/16 17:44	:11 Stop suce	entory su ceed. ceed.	icceed.	/	۸si	Reader
Discon	nect		)23/05/16 17:44 )23/05/16 17:44 )23/05/16 17:44 )23/05/16 17:44	:11 Stop suce :11 Stop suce :11 Stop suce :11 Stop suce	ceed. ceed. ceed. ceed.	icceed.	/	۸si	Reoder
Discon	inect		)23/05/16 17:44 )23/05/16 17:44 )23/05/16 17:44	:49 Start Inve :11 Stop suce :11 Stop suce :11 Stop suce	ceed. ceed. ceed. ceed.	icceed.	/	۸si	Reoder
Discon	tory	arcode Scan	)23/05/16 17:44 )23/05/16 17:44 )23/05/16 17:44	:49 Start Inve :11 Stop suce :11 Stop suce :11 Stop suce	ceed. ceed. ceed. ceed.	icceed.	/	۸si	Reader.
Discon	tory	Barcode Scan Power Gain:	23/05/16 17:44 23/05/16 17:44 23/05/16 17:44 23/05/16 17:44	249 Start inve 211 Stop succe 211 Stop succe 211 Stop succe 200 Start in Stop Succe 200 Start in Stop Succe 200 Start investigation Start investig	ime(s):	Jacceed.	Conti		Export
Discon Invent Sta	inect cory	Barcode Scan Power Gain: Session:	30.0 dB × S0 ×	249 Start inve 211 Stop succe 211 St	ime(s): (	Jucceed.	Conti	nuous Mode	Export LED ON
Discon Invent Sta	rt	Barcode Scan Power Gain: Session: • EPC • Te	30.0 dB × s0 × mperature () N	Operation T Session Flag	ime(s):	) A or B v	Conti Repoi	nuous Mode rt RSSI av PC	Export LED ON
Discon Invent Sta	rt	Barcode Scan Power Gain: Session: Session: EPC Te	30.0 dB S0 wperature () N	Operation T Session Flag	ime(s):	) A or B ~	Conti Report Displa	nuous Mode rt RSSI ay PC	Export LED ON Clear
Discon Invent Sta	rt PC	Barcode Scan Power Gain: Session: © EPC ○ Te EPC	30.0 dB × S0 × mperature O N	Operation T Session Flag	ime(s): (	A or B ~	✓ Conti ✓ Repor ✓ Displa	nuous Mode rt RSSI ay PC	Export LED ON Clear
Discon Invent Sta Index	rt PC 35FD	Barcode Scan Power Gain: Session: © EPC \(C) Te EPC 555511700000	30.0 dB × S0 × mperature N	Operation T Session Flag Aoisture RSSI 7 -49.8dB	ime(s): ( Phase 225°	A or B Frequency 918MHz	Count Count 248	nuous Mode rt RSSI ay PC	Export LED ON Clear
Discon Invent Sta Index 16	rt PC 35FD 3400	20     20	30.0 dB S0 mperature N N N N N N N N N N	Operation T Session Flag Moisture RSSI 7 -49.8dB	Phase 225° 307°	A or B Frequency 918MHz 918MHz	<ul> <li>✓ Conti</li> <li>✓ Report</li> <li>✓ Displat</li> <li>Count</li> <li>248</li> <li>260</li> <li>222</li> </ul>	nuous Mode rt RSSI ay PC	Export LED ON Clear
Discon Invent Sta Index 16 17 18	rt PC 35FD 3400 3400	20           20	30.0 dB S0 mperature N N N N N N N N N N	Operation T Session Flag Moisture RSSI 7 -49.8dB 6 -57.6dB 2 -53.0dB	Phase 225° 307° 267°	Frequency 918MHz 918MHz	<ul> <li>✓ Conti</li> <li>✓ Report</li> <li>✓ Displation</li> <li>✓ Count</li> <li>248</li> <li>260</li> <li>260</li> <li>260</li> </ul>	nuous Mode rt RSSI ay PC	Export LED ON Clear
Invent Sta Index 16 17 18 19	rt PC 35FD 3400 3400	20           20	30.0 dB S0 mperature N020CE0CE6847 N020CE0CE68F2 N020CE0CE68F2 N020CE0CE8A8	Operation T Session Flag Moisture RSSI 7 -49.8dB 6 -57.6dB 2 -53.0dB 3 -37.8dB	Phase 225° 307° 267° 267°	Frequency 918MHz 918MHz 918MHz	✓ Conti ✓ Report ✓ Displa Count 248 260 260 260	nuous Mode rt RSSI ay PC	Export LED ON Clear
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Discon	rt PC 35FD 3400 3400 3400 3400	20           20	30.0 dB 30.0 d	249 Start investigation         11 Stop success         Ression Flag         Aoisture         RSSI         7 -49.8dB         6 -57.6dB         2 -53.0dB         3 -37.8dB         7 -38.9dB         3 -64.3dB         7 -49.4.3dB	Phase ≥ 225° 307° 267° 267° 267° 267° 263° 233° 104° 204°	Frequency 918MHz 918MHz 918MHz 918MHz 918MHz 918MHz 918MHz 918MHz	✓ Conti ✓ Repoi ✓ Displa 248 260 260 262 262 144	nuous Mode rt RSSI ay PC	Export LED ON Clear
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Discon	rt PC 35FD 3400 3400 3400 3400 3400 3400 3400 340	20           21           22           22           22           22           22           22           22           22           22           22           220           220           220           220           220	30.0 dB 30.0 d	Coperation T         Session Flag         Moisture         RSSI         7       -49.8dB         6       -57.6dB         2       -53.0dB         3       -37.8dB         7       -38.9dB         3       -64.3dB         5       -74.4dB         3       -55.8dB         4       -63.0dB         5       -69.7dB	Phase ceed. → Phase 225° 307° 267° 267° 262° 233° 104° 284° 155° 6° 211° 211° 207°	Jacceed.         Frequency         918MHz	<ul> <li>✓ Conti</li> <li>✓ Report</li> <li>✓ Displation</li> <li>248</li> <li>260</li> <li>262</li> <li>262</li> <li>144</li> <li>7</li> <li>258</li> <li>263</li> <li>233</li> <li>106</li> <li>122</li> </ul>	Asi nuous Mode rt RSSI ay PC	Reader, Export LED ON Clear Tag Count: 32 Read Count: 6554 Time(Sec): 35 Speed(t/s):
Discon	rt PC 35FD 3400 3400 3400 3400 3400 3400 3400 340	20           21           22           22           22           22           22           22           22           22           22           22           22           22           22           22           22	30.0 dB 30.0 d	Coperation T         Session Flag         All Stop success         Coperation T         Session Flag         All Stop success         RSSI         7       -49.8dB         6       -57.6dB         2       -53.0dB         3       -37.8dB         3       -64.3dB         5       -74.4dB         3       -43.8dB         4       -63.0dB         5       -69.7dB         6       -69.7dB         7       -51.6dB	Phase ceed.	Interceed.         A or B         Frequency         918MHz	<ul> <li>✓ Conti</li> <li>✓ Report</li> <li>✓ Displation</li> <li>248</li> <li>260</li> <li>262</li> <li>262</li> <li>262</li> <li>144</li> <li>7</li> <li>258</li> <li>263</li> <li>233</li> <li>106</li> <li>138</li> </ul>	Asi nuous Mode rt RSSI ay PC	Reader, Export LED ON Clear Tag Count: 32 Read Count: 6554 Time(Sec): 35 Speed(t/s): 148
Discon Invent Sta Index 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27 28	rt PC 35FD 3400 3400 3400 3400 3400 3400 3400 340	20           Barcode Scan           Power Gain:           Session:           © EPC Te           555511700000           E28011700000	30.0 dB 30.0 dB 30.0 dB S0 mperature N N N N N N N N N N	Coperation T         Session Flag         Noisture         RSSI         7       -49.8dB         6       -57.6dB         2       -53.0dB         3       -64.3dB         5       -74.4dB         3       -64.3dB         5       -58.8dB         4       -63.0dB         5       -69.7dB         6       -51.6dB         7       -53.0dB	Phase ceed.	Intervention       Intervention         Interventinterventinterion       Intervention     <	✓ Conti ✓ Repor ✓ Displa 248 260 260 262 262 144 7 258 263 233 106 138 139	Asia	Reader, Export LED ON Clear Tag Count: 32 Read Count: 6554 Time(Sec): 35 Speed(t/s): 148
Discon Invent Sta 16 17 18 19 20 21 22 23 24 25 26 27 28	PC 35FD 3400 3400 3400 3400 3400 3400 3400 340	20         Barcode Scan         Power Gain:         Session:         • EPC         55551170000         E2801170000	30.0 dB 30.0 dB 30.0 dB S0 mperature N N N N N N N N N N	Operation T         Session Flag         Aoisture         RSSI         7       -49.8dB         6       -57.6dB         2       -53.0dB         3       -64.3dB         5       -74.4dB         3       -64.3dB         5       -74.4dB         3       -63.0dB         5       -55.8dB         4       -63.0dB         5       -51.6dB         6       -53.0dB	Phase ceed. Phase 225° 307° 267° 267° 262° 233° 104° 284° 155° 6° 211° 217° 68° 146°	Jacceed.         A or B       ×         918MHz       918MHz	<ul> <li>✓ Conti</li> <li>✓ Report</li> <li>✓ Displat</li> <li>Count</li> <li>248</li> <li>260</li> <li>262</li> <li>262</li> <li>262</li> <li>262</li> <li>263</li> <li>233</li> <li>106</li> <li>138</li> <li>139</li> </ul>	Asi	Reader, Export LED ON Clear Tag Count: 32 Read Count: 6554 Time(Sec): 35 Speed(t/s): 148

Fields	Descriptions
Index	The sequence number of the data
PC	PC bank of the RFID tag
EPC	EPC bank of the RFID tag
RSSI*1	The signal strength of the RFID tag in the last inventory
Phase*1	The phase of the RFID tag
Frequency*1	The operating frequency of the AsReader during the inventory
Count	The count of times of reading the RFID tag
Moisture*2	Moisture
Temperature*2	Temperature

• The meanings of the fields in the Tag list are as follows:

\*1 RSSI, Phase, and Frequency fields are displayed only when Report RSSI is checked.
\*2 The Moisture and Temperature fields are displayed only when either "Temperature" or "Moisture" in the EPC/Temperature/Moisture option is selected.

Fields	Descriptions						
Tag Count	Number of the inventoried RFID tags (counting each unique tag						
	only once, even if the same tags are repeatedly inventoried)						
Read Count	Total inventory times (keep counting when the same tag is						
Read Count	repeatedly inventoried)						
Time (See)	The inventory duration after each click of the "Start". (Unit:						
	seconds)						
Speed (t/s)	Inventory speed. Unit: number of inventoried tags per second						

• The meanings of the fields in the Inventory results area are as follows:

### 2.2. Inventory page

Inventory	Barcode Scan							
	Power Gain:	30.0 dB	1~	Operation Time(s):	0	2	✓ Continuous Mode	6
Start	Session:	S0	3~	Session Flag:	A or B	4	✓ Report RSSI	
	● EPC ○ Temperature ○ Moisture ⑤						8	

#### 1) Power Gain

Set/Get the power of the AsReader (dB). In general, the larger the value of power is set, the farther the reading distance and the more battery consumption are.

Range: 2 to 30.

This setting is saved to the AsReader.

#### 2 Operation Time

Set the inventory time. The AsReader stops the inventory as soon as the set time has passed. This setting is saved to the AsReader.

Unit: seconds (0 = unlimited).

#### \* Only works if Continuous Mode is on.

#### ③ Session

Set/Get Session. This setting is saved to the AsReader.

"Session" and "Session Flag" can be set to adjust the response time of RFID tags. (Response times vary with RFID tag specifications.)

Session Flag	S0	S1	S2/S3
A only	The RFID tags that have been inventoried will immediately become ready to be inventoried again after receiving the radio waves.	The RFID tags that have been inventoried cannot be inventoried again within 0.5~5 seconds after being inventoried.	The RFID tags that have been inventoried cannot be inventoried again within 2~60 seconds after being inventoried.
B only	RFID tags in the initial state cannot be inventoried.	The RFID tags cannot be inventoried during the first inventory. The RFID tags that have been inventoried cannot be inventoried again until the inventory starts again.	The RFID tags cannot be inventoried during the first inventory. The RFID tags that have been inventoried cannot be inventoried again until the inventory starts again.
A or B	The RFID tags that have been inventoried will immediately become ready to be inventoried again after receiving the radio waves.	The RFID tags that have be inventoried again with being counted.	been inventoried cannot hin 0.5~5 seconds after

#### **④** Session Flag

Set the inventory target to Flag A or Flag B. It can be set to A Only, B Only, or A or B.

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This setting is saved to the AsReader.

#### **⑤ EPC/Temperature/Moisture**

Select the type of RFID tags to inventory.

- **EPC:** Inventories regular RFID tags. The PC and EPC values of the tags are displayed in the tag list.
- **Temperature:** Inventories temperature sensor tags. The PC, EPC, and temperature values are displayed in the tag list.

\* When inventorying temperature sensor tags, do NOT set Option  $\rightarrow$  Link Profile to 3.

• **Moisture:** Inventories moisture sensor tags. The PC, EPC, and moisture values are displayed in the tag list.

#### **(6)** Continuous Mode

On or off continuous inventory RFID tag mode.

Not selected: Single inventory. The AsReader automatically stops the inventory once an RFID tag is read.

Selected: Continuous inventory. The AsReader continues to inventory multiple RFID tags once the "Start" is clicked until "Stop" is clicked or the set Operation Time has passed.

#### ⑦ Report RSSI

Set whether to display the received signal strength indication of the inventoried RFID tags.

Selected: display, Not selected: hide.

This setting is saved to the AsReader.

#### **8 Display PC**

Sets whether to display the PC (Protocol Control) values of the inventoried RFID tags. Checked: display, Unchecked: hide.

# 2.3. RFID Data Export

Inventory	Barcode Scan							Click
	Power Gain:	30.0 dB	~	Operation Time(s):	0		✓ Continuous Mode	Exp
Start	Session:	SO	~	Session Flag:	A or B	~	Report RSSI	LED ON
EPC  Temperature  Moisture							✓ Display PC	Clear

Click "Export" to export the RFID tag data in the tag list as a CSV file.

# 2.4. LED ON

Invent	ory	Barcode Scan							②Clic
		Power Gain:	30.0 dB	×	Operation Time(s):	0		Continuous Mode	Export
Sta	rt	Session:	SO	~	Session Flag:	A or B	~	Report RSSI	LED ON
		EPC O Te	emperature	0	Aoisture			✓ Display PC	Clear
Index	PC	EPC			Count	1	Sele	ect	
1	3400	E2801170000	0020CE0CE	2AE	7 14 🗸				
2	3400	E2801170000	0020CEOCE	8A8	3 14				
3	3400	E2801170000	0020CEOCE	6827	7 15 🗌				Tag Count:

Click "LED ON" to light the LED tags selected in the list. Multiple selections are supported.

\* This function only works for LED tags.

# 2.5. Clearing the Tag List

Inventory	Barcode Scan							Click	
	Power Gain:	30.0 dB	~	Operation Time(s):	0		✓ Continuous Mode	Export	
Start	Session:	SO	Ý	Session Flag:	A or B	~	Report RSSI	LED ON	
	● EPC ◯ Te	emperature	0	Moisture			✓ Display PC	Clear	

Click "Clear" to clear the tag data displayed in the tag list.

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# 3.1.1D&2D Barcode Scan

Inventory Barcode Scan Encoding  ASCII UTF8 Shift-JIS Rescan Time Not Used  Select Count: 4 Index Code Type 1 01234567891019 Interleaved2Of5 2 http://asreader.jp/ PDF417 2 Code20	Start So	can
Encoding       ASCII       UTF8       Shift-JIS         Rescan Time       Not Used       Select         Count:       4       Select         Index       Code       Type         1       01234567891019       Interleaved20f5         2       http://asreader.jp/       PDF417         2       ASTERISK       Code20	Start So	can
Rescan Time Not Used (a) Select         Count: 4       (a) Select         Index       Code       Type         1       01234567891019       Interleaved2Of5         2       http://asreader.jp/       PDF417         2       ASTERISK       Code30		
Count:         4         3         Select           Index         Code         Type           1         01234567891019         Interleaved2Of5           2         http://asreader.jp/         PDF417           2         ASTERISK         Code30	Expo	ort
Index         Code         Type           1         01234567891019         Interleaved2Of5           2         http://asreader.jp/         PDF417           2         ASTERISK         Code30	Clear	ar
1         01234567891019         Interleaved2Of5           2         http://asreader.jp/         PDF417           2         ASTERISK         Code30	Count	
2 http://asreader.jp/ PDF417	1	
	2	
5 ASTERISK COde59	4	
4 1234567890128 EAN13	1	

#### • Operating steps:

- 1. Click "Barcode Scan" to access the barcode scanning page.
- 2. Select one from the three encoding types: ASCII, UTF8, and Shift JIS.
- 3. Set single scan or continuous scan (Rescan Time).

Single scan: Select "Not Used".

Continuous scan: Select a scanning interval.

Unit: ms (Range: 100 to 5000).

4. Press the Trigger button of the AsReader or click "Start Scan" on the app and the LED and laser light is emitted. If no barcode is scanned within the timeout time, the AsReader will stop emitting the LED and laser lights.

In single scan mode, once a barcode is successfully scanned, the AsReader stops scanning. In continuous scan mode, the AsReader continuously scans barcodes beginning when the trigger button is pressed (or the "Start Scan" is clicked) until the trigger button is pressed again (or "Stop Scan" is clicked).

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\* During the scan, the "Start Scan" button on the app's page changes to "Stop Scan".

• The meanings of the fields in the barcode list are as follows:

	The number of unique barcodes			
Count: 4				
Index	Code	Туре	Count	
1	01234567891019	Interleaved2Of5	1	
2	http://asreader.jp/	PDF417 2		
3	ASTERISK	Code39	1	
4	1234567890128	EAN13	1	

Fields	Descriptions
Index	The sequence number of the barcode data
Code	Barcode data
Туре	Barcode type
Count	The number of times that each barcode is scanned

# **3.2. Barcode Data Export**

Inventory	/ Barcode Scan	Clic	k
Encoding	● ASCII ○ UTF8 ○ Shift-JIS		Start Scan
Rescan Ti	ime Not Used ~		Export
Count:	4		Clear
Index	Code	Туре	Count
1	01234567891019	Interleaved2Of5	1
2	http://asreader.jp/	PDF417	2
3	ASTERISK	Code39	1
4	1234567890128	EAN13	1

Click "Export" to export the barcode data in the barcode list as a CSV file.

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# **3.3. Clearing the Barcode List**

Inventory	/ Barcode Scan		
Encoding	● ASCII ○ UTF8 ○ Shift-JIS	Clic	Start Scan
Rescan T	ime Not Used 🗸		Export
Count:	4		Clear
Index	Code	Туре	Count
1	01234567891019	Interleaved2Of5	1
2	http://asreader.jp/	PDF417	2
3	ASTERISK	Code39	1
4	1234567890128	EAN13	1

Click "Clear" to clear the barcode data displayed in the barcode list.

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# **4.1.Basic Information**

Click "Basic" and the basic information of the app and the AsReader are displayed.

Click	Basic	Option	Mask	Read	Write	Lock	
	App Ver	sion:	1.0.0				
	Firmwar	e Version:	1.1.20				
	Hardwa	re Version:	2.5.0				
	Region/	Country:	Japan ´	IW			
	S/N:		HJ0000	00			
	UHF/HF	Version:	1.2.9.0				
			Up	date Firm	nware	]	
						-	
			RFID	Update F	irmware	]	
						-	

• The meanings of the fields in the basic information are as follows:

Fields	Descriptions
App Version	The version of the app
Firmware Version	The firmware version of the AsReader
Hardware Version	The hardware version of the AsReader
Region/Country	The region or country where the AsReader is set
S/N	The serial number of the AsReader
UHF/HF Version	The firmware version of the RFID module

# 4.2. Firmware Update

2 0	lick	Basic	Option	Mask	Read	Write	Lock				
		App Ve	ersion:	1.0.0							
		Firmwa	re Version:	1.1.20							
		Hardwa	are Version:	2.5.0							
		Region	/Country:	Japan	1W						
		S/N:		H1000	00						
		UHF/H	F Version:	1.2.9.0	1						
		② CI	ick	Up	odate Firn	nware					
				RFID	Update F	irmware	1				
					•						
				1							
	Update Firm	ware								3 Clic	k
File	Update Firm • List:	ware						Get Files	- C Downloa	3 Clic	k
File	Update Firm 9 List: Status	ware Version	File Name			Dow	nload Progres	Get Files	Download	3 Clic	k
File	Update Firm = List: Status ] debug	Version 1.1.20	File Name P23_1.1.20.b	bin		Dow	nload Progres 0 9	Get Files	Download	3 Clic	sk 5 Clic
File	Update Firm e List: Status debug	Version 1.1.20 1.1.21	File Name P23_1.1.20.b P23_1.1.21.b	pin		Dow	nload Progres 0 %	Get Files	Download Download	3 Clic	sk 5 Clic
	Update Firm e List: Status debug debug debug	Version           1.1.20           1.1.21           1.1.19	File Name           P23_1.1.20.b           P23_1.1.21.b           P23_1.1.21.b	pin pin pin		Dow	nload Progres 0 9 0 9	Get Files	Download Download Download		sk ⑤ Clic
	Update Firm e List: debug debug debug debug	Version 1.1.20 1.1.21 1.1.19 1.1.12	File Name           P23_1.1.20.b           P23_1.1.21.b           P23_1.1.21.b           P23_1.1.19.b           P23_1.1.12.b	in in in		Dow	nload Progres 0 9 0 9 0 9	Get Files	Download Download Download Download	3 Clic	sk ⑤ Clic
	Update Firm e List: Status debug debug debug debug	<ul> <li>Version</li> <li>1.1.20</li> <li>1.1.21</li> <li>1.1.19</li> <li>1.1.12</li> <li>1.1.12</li> <li>1.1.12</li> </ul>	File Name P23_1.1.20.b P23_1.1.21.b P23_1.1.21.b P23_1.1.19.b P23_1.1.12.b	in in in in		Dow	nload Progres 0 9 0 9 0 9 0 9	Get Files	Download Download Download Download Download		sk 5 Clic
File C	Update Firm e List: debug debug debug debug debug	<ul> <li>Version</li> <li>1.1.20</li> <li>1.1.21</li> <li>1.1.19</li> <li>1.1.12</li> <li>1.1.12</li> <li>1.1.9</li> </ul>	File Name           P23_1.1.20.b           P23_1.1.21.b           P23_1.1.21.b           P23_1.1.19.b           P23_1.1.12.b           P23_1.1.12.b	vin vin vin n 0 9	%	Dow	nload Progres 0 9 0 9 0 9 0 9 0 9	Get Files	Download Download Download Download Download		k 5 Clic

#### • Operating steps:

- 1. Click "Basic".
- 2. Click "Update Firmware" to open the Update Firmware window.
- 3. Click "Get Files" to refresh the firmware file list. (Internet connection required.)
- 4. Select the firmware version file you want to use.
- 5. Click "Download" to download the file.
- 6. Click "Update" to start the update after the download of the file is complete.

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# 4.3. RFID Module Firmware Update

	1	Clic	k	Basic	Option	Mask	Read	Write	Lock					
				App Ver	rsion:	1.0.0								
				Firmwar	e Version:	1.1.20								
				Hardwa	re Version:	2.5.0								
				Region	'Country:	Japan	1W							
				S/N:		, H10000	00							
				UHF/HF	Version:	1.2.9.0								
						Up	date Firn	nware						
				② Cli	ck	RFID	Update F	irmware	1					
						1								
		A RFI	D Update Fi	rmware							- 3	Click		
		File Li	st:							Get	Files Download A	All		
			Status	Version	File Name			Dow	nload Progre	ess		_		
			release	1.2.3	R2000_RF600	01_V123_081	2_4S4B.bin		U	1%	Download	5	Click	
④ Select			release	1.2.9.0	R2000_RF610	01_454B_230	112.bin		0	9%	Download			
						0 9	6							
											Update			ĸ

#### • Operating steps:

- 1. Click "Basic".
- 2. Click "RFID Update Firmware" to open the RFID Update Firmware window.
- 3. Click "Get Files" to refresh the firmware file list. (Internet connection required.)
- 4. Select the firmware file you want to use.
- 5. Click "Download" to download the file.
- 6. Click "Update" to start the update after the download of the file is complete.

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Click "Option" to configure RFID/Barcode parameters, buzzer volume, etc.

ſ	Basic	Option	Ma	sk F	Read	Write	Lock	
1234567	Buzzer Idle Tim Sleep T Battery Auto O QValue	ne(10ms) ime(s) Interval(s) ff Time(s)		High 0 300 0 300 0 300 04				~   
7 8 9 10 11	MaxQ MinQ Link Pro Default Barcode	ofile Link Profile e Timeout(s	)	15 00 1 1 0				· · · · · · · · · · · · · · · · · · ·
12 (13)	) Baud Ra ) Frequer	ate ncy Automa	itic	11520	Obps			v
				(14) Save		(15) Default		

#### 1 Buzzer

Set on/off and the sound volume of the buzzer.

When set to on, AsReader beeps at the set volume in the following cases:

- a) When the AsReader is turned on or off.
- b) When the AsReader is connected or disconnected to phones (or PCs).
- c) When the AsReader inventories RFID tags or scans 1D and 2D barcodes.
- d) When an RFID tag is read, written, locked, or killed.

This setting is saved to the AsReader.

#### 2 Idle Time (10ms)

Set the duration of the time the radio waves from the AsReader are stopped when

the RFID tags are being inventoried.

Range: 0 to 65535.

This setting is saved to the AsReader.

\* Depending on the laws of various countries on the use of radio waves, the Idle Time should be set according to the following table.

Regulations	Idle Time
Radio law (JP)	Not less than 50ms
FCC (US)	Not less than 20ms
CE (EU)	Not less than 100ms

#### ③ Sleep Time (seconds)

Set the time that the AsReader takes to go to sleep mode when not operated. Range: 0 to 1800. When the value is set to 0, the sleep mode is turned off. This setting is saved to the AsReader.

#### ④ Battery Interval (seconds)

Set the interval when the AsReader sends battery information to the app. Range: 0 to 1800.

#### **5** Auto Off Time (seconds)

Set the automatic shutdown time for the AsReader in the sleep mode.

Range: 0 to 1800.

When the value is set to 0, the automatic shutdown function is turned off. This setting is saved to the AsReader.

#### 6 QValue

Select the fixed Q value. The number of slots used by the anti-collision algorithm is equal to  $2^{Q}$ .

Range: 0 to 15.

This setting is saved to the AsReader.

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#### ⑦ MaxQ

The maximum value of Q (read-only).

#### 8 MinQ

The minimum value of Q (read-only).

#### 9 Link Profile

Please refer to the following table for setting values.

0	The inventory speed is slow, but the inventory sensitivity is high.
1	Long inventory distance.
2	Same as "1". (for EU version)
3	Fast inventory.

#### 10 Default Link Profile

Set the default value of the link profile. When the AsReader is connected to the app, the value of the link profile is the same as this default link profile. This setting is saved in the app.

#### (1) Barcode Timeout (seconds)

Set the scanning timeout period for the AsReader's barcode scanning. Range: 4 to 300.

This setting is saved to the AsReader.

#### 12 Baud Rate

Set the baud rate of the RFID module. We recommend that you do NOT change this. This setting is saved to the AsReader.

#### **13** Frequency Automatic

Set frequency hopping or fixed frequency.

Selected: frequency hopping

Not selected: fixed frequency

The LBT (Listen Before Talk) Channel can be set only when set to a fixed frequency. This setting is saved to the AsReader.

\* This parameter is displayed only when the Region/Country is Japan.

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#### (14) Save

Click "Save" to save your settings. IMPORTANT: After changing settings, please be sure to click this button to save your changes.

#### (15) Default Setting

Click "Default" to restore all settings to factory defaults.

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Click "Mask" to set RFID tag filtering parameters and use EPC bank data as filtering conditions.

When multiple tags are in the range of the AsReader, you can perform inventory, read,

write, lock, and kill on the specific RFID tag by setting filtering parameters.

None of the parameters on this page are saved to AsReader.

Example: Filtering RFID tags with the EPC numbers that start with "3001"

Basic	Option	Mask	Read	Write	Lock		Inven	tory	Barcode Scan			
									Power Gain:	30.0 dB	Ŷ	Operat
Offset:		32 bit				~	Sta	art	Session:	S0	Ý	Sessio
Mask:		3001								emperature		loisture
Length:		16 bit				~						
							Index	EPC			Co	unt
							1	3001	AB780D6CC000	0B5C5544	4	
							2	3001	AB780D6CC000	0B5C5553	524	4
		Save	e	Clear			3	3001	AB780D6CC000	0B5C5545	8	

#### **Operating steps:**

#### • To set filtering parameters:

1. Select the start address (Offset): 32 bit (the first 32 bits are CRC and PC and the EPC number starts at the 32nd bit.).

- 2. Enter the value to be filtered (Mask): 3001
- 3. Select the filter length: 16 bit (4 bytes.)
- 4. Click "Save" to save the settings.

After saving the settings, click "Start" to inventory or perform Read, Write, Lock, or Kill on the RFID tags. Only the tags that meet the filtering conditions are displayed on the page as shown in the picture above.



Click "Read" to set to read data at a specific location in the selected bank of the RFID tag. When multiple tags are in the range of the AsReader, RFID tags can be filtered by setting filtering parameters (See <u>6 Mask</u>).

#### Example: Reading the data of the 7th and 8th word in the EPC bank of the RFID tag

Basic Option	Mask	Read	Write	Lock		Inven	tory	Barcode Scan			
● EPC ○ TID ○ U	Jser 🔿 Re	eserved		① Se	elect	Sta	art	Power Gain: Session:	20.0 dB	Op Se	peration Ti
Offset(WORD):	6			2 S	et			● EPC ◯ Te	emperature 🔿	Moi	sture
Length(WORD):	2					Index	PC	EPC			Count
Password:	0000000	00				1	3400	E2801170000	0020CE0CE2A	E7	20
Power Gain:	20.0 dB				~	2	3400	E2801170000	0020CE0CE2A	D7	16
Operation Time(s):	0					3	35FD	E2801170000	0020CE0CF38[	03	20
ReportRSSI						4	3400	E2801170000	0020CE0CE2A	97	19
Reportition.						5	3400	E2801170000	0020CE0CE2A	E8	19
Result						6	3400	E2801170000	0020CE0CE2A	77	16
E2801170000020C	E0CE2A97	7									
RSSI:											
Phase:											
Read Memory:	EOCE 2A	A97	3 Clear	Click							

#### **Operating steps:**

- 1. Select "EPC".
- 2. Enter the start address (offset): 6
- 3. Enter the length of the data to read: 2 (8 bytes = 2 words)
- 4. Click "Read" to read. The read data is displayed in the "Read Memory" text box.

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### 8.1. How to Write to an RFID Tag

Click "Write" to write data to a specific location in the selected bank of the RFID tag. When multiple tags are in the range of the AsReader, RFID tags can be filtered by setting filtering parameters (See <u>6 Mask</u>).

Example: Writing "11112222" to the third and fourth words of the EPC bank of the RFID tag

Basic Option	Mask I	Read	Write	Lock		Inven	tory	Barcode Scan		
● EPC ○ TID ○ U	Jser 🔿 Res	served		① Select		Sta	art	Power Gain: Session:	20.0 dB × C S0 × S	)peration Tin ession Flag:
Offset:	2			@ Sot				● EPC ◯ Te	emperature 🔿 Mo	isture
Write Data:	11112222	2				Index	PC	EPC		Count
Password:	00000000	)				1	3400	E2801170000	0020CE0CE2A82	55
Power Gain:	20.0 dB				~					
Operation Time(s):	0									
Operation Time(s):	0									
ReportRSSI:										
Result										
E280117000000200	E0CE2A82									
RSSI:										
Phase:			_							
				Click						
			3	CIICK						
		_/		_						
	Write		Clear							

#### **Operating steps:**

- 1. Select "EPC".
- 2. Enter the start address (Offset): 2
- 3. Enter the data to write.

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4. Click "Write" to write the data. The EPC number before the overwrite is displayed in the "Result" text box. If the Write succeeds, the message "Write tag succeeded" is displayed in the notification area.

# 8.2. How to Change the Access Password

#### • Method 1:

Basic Option	Mask	Read	Write	Lock	① Click
	User 🖲 R	eserved		) Select	
Offset:	2		3	) Set	
Write Data:	888888	88			
Password:	000000	00			
Power Gain:	30.0 dE	3			~
Operation Time(s):	0				
ReportRSSI:					
Result					
RSSI:					
Phase:					
			④ Click		
	Write	e	Clear		

#### **Operating steps:**

- 1. Click "Write".
- 2. Select "Reserved" for the memory bank.
- 3. Enter the start address (Offset): 2
- 4. Enter the access password to set: 88888888

5. Click "Write" to write the data. The EPC number of the tag is displayed in the Result text box. When the writing succeeds, the message "Write tag succeeded" is displayed in the notification area.

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ASR-P252B Demo App for Windows User's Manual

Basic Option	Mask	Read	Write	Lock			
Kill Password:					-		
Access Password:							
EPC:							
TID:							
User:							
Password:							
Access Password:	2222222	2					② Ente
Kill Password:	only for	set kill	password				
Power Gain:	30.0 dB					~	
Operation Time(s):	0						
ReportRSSI:							
Result							
111111700000200	EOCF5A63	3					
RSSI:							
Phase:							
Lock	Unlock		3 Cl	ick	Kill		
Set Access Da	ssword	Set	Kill Passw	ord	Clear		

#### Operating steps:

1. Click "Lock".

2. Enter the access password to set.

3. Click "Set Access Password" to set the access password. The EPC number of the tag is displayed in the Result text box. When the setting succeeds, the message "Write tag succeeded" is displayed in the notification area.

# 8.3. How to Change the Kill Password

#### Method 1:

Example: Changing the kill password of the RFID tag to 999999999:

Basic	Option	Mask	Read	Write	Lock	① Click
O EPC C	) tid () i	User 🖲 F	Reserved		2) Selec	t
Offset:		0			③ Set	
Write Da	ta:	999999	99			
Password	l:	000000	000			
Power Ga	ain:	30.0 d	В			~
Operatio	n Time(s):	0				
ReportRS	SI:					
Result						
RSSI:						
Phase:						
				④ Click		
		Writ	e	Clear		

#### **Operating steps:**

- 1. Click "Write".
- 2. Select "Reserved" for the memory bank.
- 3. Enter the start address (Offset): 0
- 4. Enter the kill password to set: 99999999

5. Click "Write" to write the data. The EPC number of the tag is displayed in the Result text box. If the writing succeeds, the message "Write tag succeeded" is displayed in the notification area.

ASR-P252B Demo App for Windows User's Manual

d 2:						
Basic Option	Mask	Read	Write	Lock		
Kill Password:						
Access Password:						
EPC:						
TID:						
User:						
Password:						
Access Password:	only for	r set acc	ess passw	/ord		
Kill Password:	1111111	11				② Ent
Power Gain:	30.0 dB					~
Operation Time(s)	): 0					
ReportRSSI:						
Result						
RSSI:						
Phase:					③ Click	
Lock	Unlock	I	Permaloc		Kill	
Set Access	Password	Set	Kill Passw	/ord	Clear	

#### **Operating steps:**

1. Click "Lock".

2. Enter the kill password you want to set in the Kill Password text box.

3. Click "Set Kill Password" to complete the change. The EPC number of the tag is displayed in the Result text box. If the setting succeeds, the message "Write tag succeeded" is displayed in the notification area.



Click "Lock" to lock, unlock, permanently lock, and kill the selected tag. When multiple tags are in the range of the AsReader, RFID tags can be filtered by setting filtering parameters (See <u>6 Mask</u>).

### 9.1.Lock

Basic Option	Mask R	ead Write	Lock	1 0	lick
Kill Password:		② Select			
Access Password:					
EPC:	✓				
TID:					
User:			③ Ente	r the Access	password
Password:	88888888				
Access Password:	only for se	t access passv	/ord		
Kill Password:	only for set kill password				
Power Gain:	30.0 dB			~	
Operation Time(s): 0					
ReportRSSI:					
Result					
SI:					
mase:					
Lock	Unlock	Permaloc	¢	Kill	
Set Access Pag	ssword	Set Kill Passy	/ord	Clear	

#### Example: Locking the EPC bank of the RFID tag

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#### **Operating steps:**

1. Click "Lock".

2. Select the bank that you want to lock. (Multiple selection is not supported.)

3. Enter the correct access password in the Password text box. The password cannot be "00000000". For the operation steps for changing the password, see <u>8.2 How to</u> Change the Access Password.

4. Click "Lock". When the lock succeeds, "Lock succeeded" is displayed in the notification area.

These steps apply to other operations such as unlock or permanently lock.

#### Unlock:

F	hase:			
	Lock	Unlock	Permalock	Kill
	Set Access	Password	Set Kill Password	Clear

#### Permanently lock:

Phase:			
Lock	Unlock	Permalock	Kill
Set Access	Password	Set Kill Password	Clear

\*1 When the Kill password area or Access password area of the RFID tag is locked, it cannot be written to/read with the default password "00000000". If other banks are locked, they cannot be written to but can be read using the default password "0000000".

\*2 If a bank is permanently locked, it cannot be written to or unlocked.

\*3 The TID bank is usually locked permanently as soon as the RFID tag leaves the factory.

# 9.2.Kill

Basic Option	Mask Rea	ad Write	Lock	① Click
Kill Password:				
Access Password:				
EPC:				
TID:				
User:			<ol><li>Enter the</li></ol>	Kill password
Password:	99999999			
Access Password:	only for set	access passw	ord	
Kill Password:	only for set	kill password		
Power Gain:	30.0 dB			~
Operation Time(s):	0			
ReportRSSI:				
Result				
				(3) CI
RSSI:				
Phase:				
Lock	Unlock	Permalock	Ki Ki	I
Set Access Pa	ssword	Set Kill Passw	ord Cle	ar

#### **Operating steps:**

1. Click "Lock".

2. Enter the correct kill password in the Password text box. The password cannot be 00000000. For changing the kill password, see <u>8.3 How to Change the Kill</u>

Password.

3. Click "Kill" to kill the tag. If it succeeds, the message "Kill tag succeeded" is displayed in the notification area.

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# User Manual

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